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(54) Title: ELECTRODE TOOL FOR ELECTROCHEMICAL MACHINING AND METHOD FOR MANUFACTURING SAME

(57) Abstract: An electrode tool for electrochemical machining includes a machining electrode surface (1a). The machining electrode surface (1a) includes a conductive pattern defined by lands (3) and grooves (3a) that are formed by groove machining the electrode surface (1a). The machining electrode surface (1a) is then molded with a hard insulating resin layer (4), and a surface of the hard insulating resin layer (4) is mechanically polished to expose the lands (3) of the conductive pattern. The lands (3) are chemically dissolved to obtain a conductive pattern (14) having a surface that is formed below a resulting insulating resin surface (2), with the height difference between the two surfaces being between 1 and 5 μm . The electrode tool allows precise surface machining of work pieces and can withstand prolonged use.



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